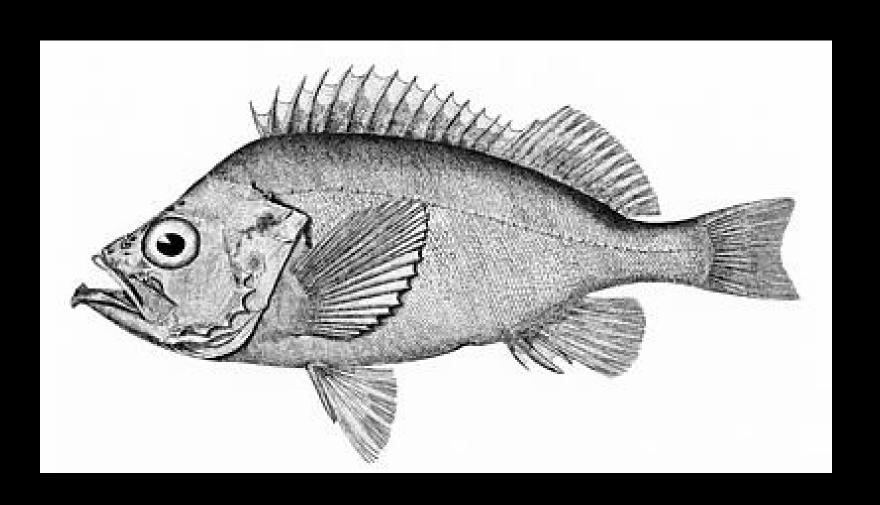
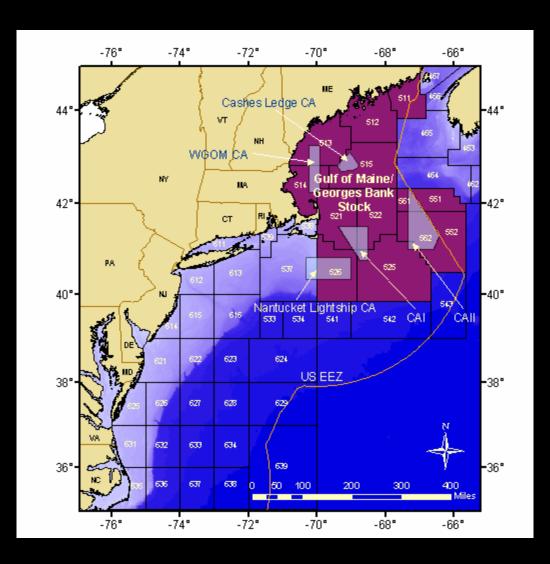
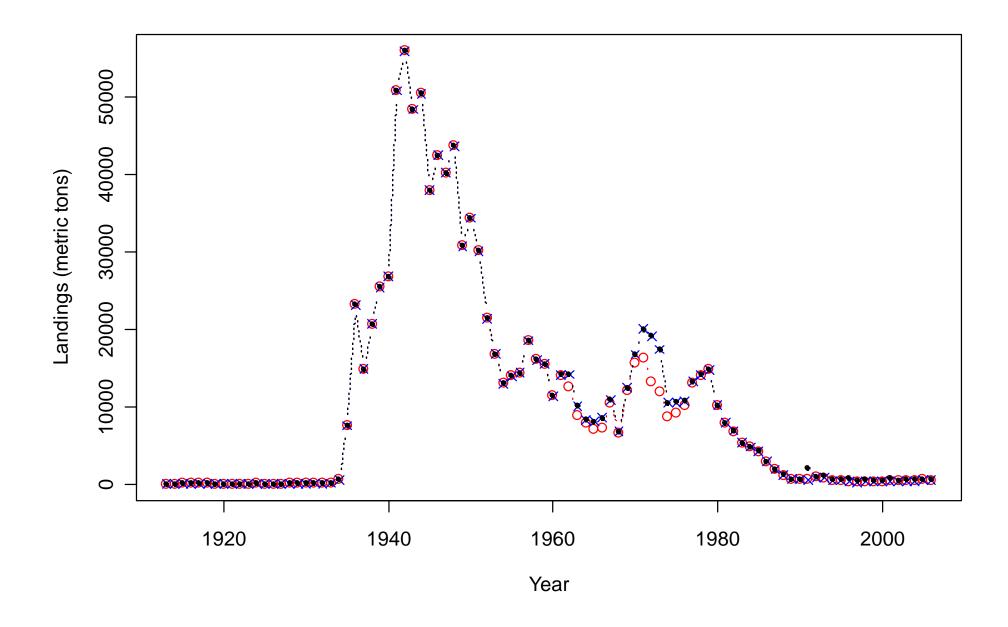
Gulf of Maine – Georges Bank Acadian Redfish

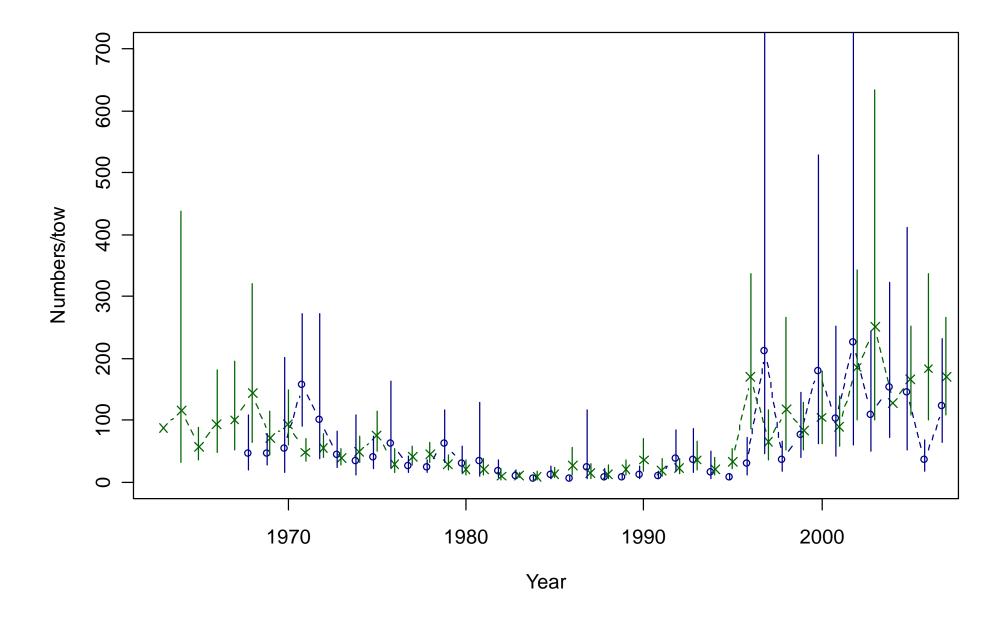
T. Miller, R. Mayo, J. Brodziak, M. Travers and L. Col For the 2008 GARM assessment

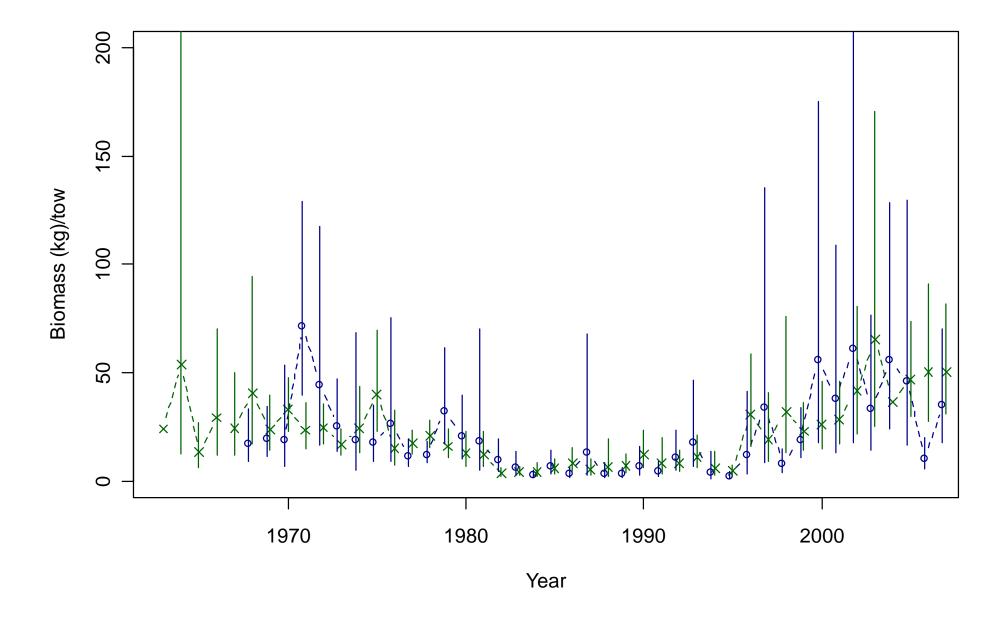
methodology meeting











Current Redfish Status

- 2004 fishing mortality estimate was 0.002 (5% of F_{MSY}): not overfishing
- 2004 spawning biomass estimate was 176,000 mt (74% of SB_{MSY}): not overfished

Current Assessment Model

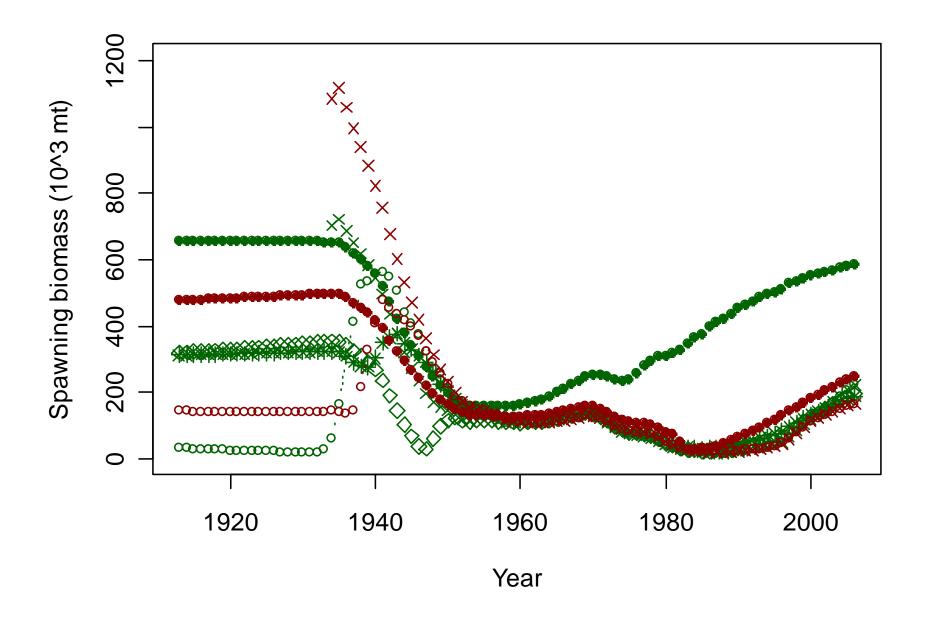
- A statistical catch-at-age model (RED)
- Prototype of the STATCAM model in the Toolbox
- Fits model to landings, fall and spring survey indices, proportions at age in surveys and landings and fishery CPUE.
- Employs a suite of "emphasis" factors on likelihood components

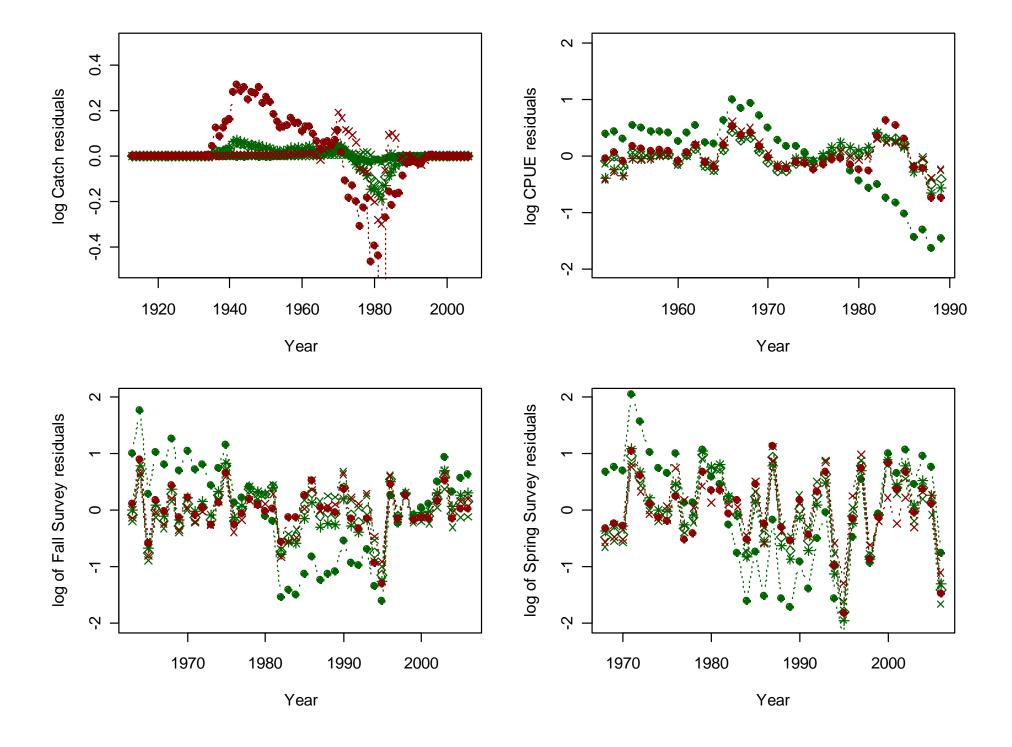
Current Assessment Model

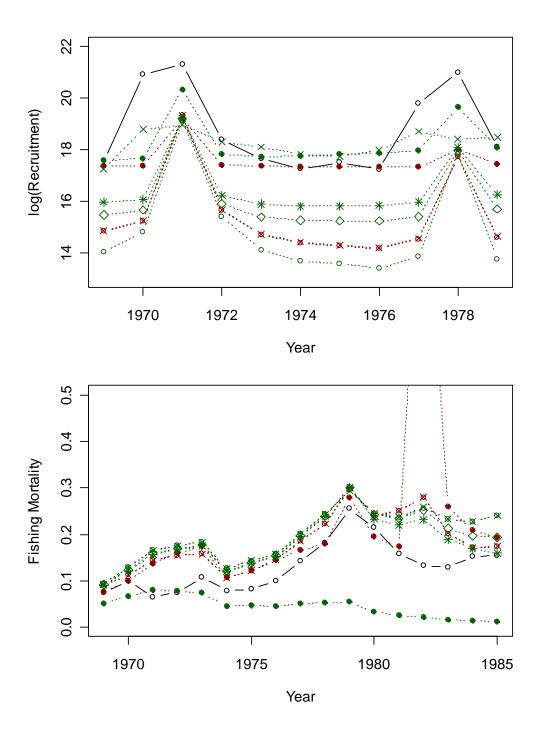
- At the 2005 GARM, the more-developed, STATCAM model was also fit to the redfish data
- Concern about some unreasonable recruitment estimates
- RED was chosen as recommended assessment model

GARM 2008

- For this meeting, fit RED and STATCAM to updated survey and landings data as well as older historical landings (1913-1933)
- The same emphasis/weighting factors with the longer landings time series gave unreasonable trends in SB estimates
- Also fit an alternative model (FSCTPD) to raw age measurements from landings and surveys for corroborative purposes







Recommended Model

 After exploration of different weighting schemes, residual patterns and comparison with FSCTPD model estimates (no retrospective analyses!): the recommended model is a STATCAM alternative described in Section N